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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/000,379	10/31/2001	Lalit K. Mestha	D/A1097 XER 2 0437	9053

7590 07/13/2005

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EXAMINER

KOCH, GEORGE R

ART UNIT	PAPER NUMBER
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1734

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/000,379

Applicant(s)

MESTHA ET AL.

Examiner

George R. Koch III

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) 6-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-3 are rejected under 35 U.S.C. 102(e) and/or 102(a) as being anticipated by Wolf (US 6,222,648)

Wolf discloses a method of processing transient errors (such as printer drift - see abstract) produced in a color measurement system monitoring a color producing process, comprising 1) implementing a model of the color producing process (see MAP1) 2) monitoring an input to the color producing process (the input from the document that occurs in MAP2 - see column 6, lines 18-21) 3) predicting an expected color signal based on the model and monitored input (the outputs of MAP1 and MAP2) 4) measuring an output color (via densitometer and spectrophotometer 70), produced by the color producing process to produce a measured color signal, 5) comparing the measured color signal to the expected color signal to produce a color error value (via MAPP 2 - comparison of document signal with measured signal) and selectively replacing the measured color signal based on the color error (see column 4, lines 36-53).

As to claim 2, Wolf discloses replacing the measured color signal with a predicted color signal based on the expected color signal (see column 4).

As to claim 3, Wolf discloses storing the modifications (see column 4, lines 43-45).

Claim Rejections - 35 USC § 103

3. Claims 4 and 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wolf as applied to claims 1-3 above, and further in view of Balasubramanian-1996 (the second NPL IDS document) and Stokes (US Patent 5,612,902).

Wolf does not disclose the models used or historical data. However, one would appreciate that any well known model can be utilized.

Balasubramanian discloses that models can be used for modeling coloring process, and specifies a Neugebauer model as a well-known model that can be used. Stokes discloses various printer models that can function as approximations of a printer device. Stokes discloses that an empirical model can be used, i.e., an on-line statistical parameterized model, and discloses that this model is used to create customized compensation values (see column 2, lines 4-21). One in the art would appreciate that such a model would be built on a large number of measurements and would thus provide optimal accuracy, at a trade off which is increased complexity. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such an empirical model in order to achieve optimal accuracy.

Stokes also discloses a Viggiano analytical model (described in column 5, line 14 to column 5, line 51), i.e., a multidimensional numerical model (see claim 1, especially

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in column 9, lines 3-8, which claim this model as a multidimensional lookup table, i.e., a multidimensional numerical model) and discloses that this model allows for faster modeling of the printer functioning (this model requires five sample steps). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such model in order to achieve faster modeling of the printer function.

Response to Arguments

4. Applicant's arguments filed 3/17/2005 have been fully considered but they are not persuasive.
5. The restriction requirement was made final in the previous office action. Group I and III are considered distinct. The apparatus of group III does not have to perform the method of group I.
6. Applicant's arguments, see remarks, filed 9/1/2004, with respect to the rejection(s) of claim(s) 1, 2, and 3 under Enomoto have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Wolf.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and

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giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


George R. Koch III
Patent Examiner
Art Unit 1734

GRK
12/13/2004